

### ABSTRACT

An approach for adaptively adjusting the correlation window for open-loop pitch determination is presented. Correlation between a windowed reference signal (or target signal ) and a candidate signal is maximized under most conditions by  
5 sliding the reference window by a delta increment in either direction to capture peak energy. The traditional fixed size of the correlation window is maintained. However, the window slides forward and/or backwards to capture peak energy within the window. The position of the adjusting or sliding window is allowed to shift in a small range or increment in either direction to maximize the energy of the windowed signal  
10 thus making sure that at least one peak energy is captured within the window.